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FIG 1a

anti-S total IgG

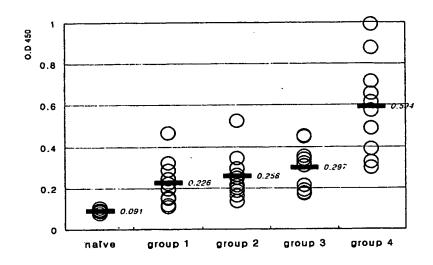
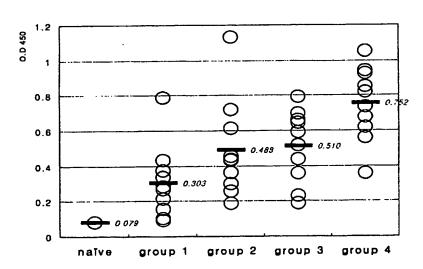


FIG 1b

anti-S IgG1



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FIG. 1c

anti-S IgG2a

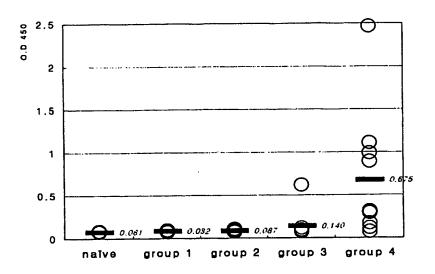
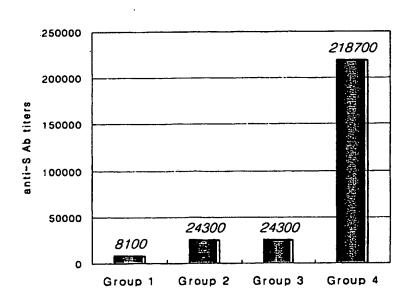


FIG 1d

anti-S total IgG



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FIG 1e

anti-S IgG1

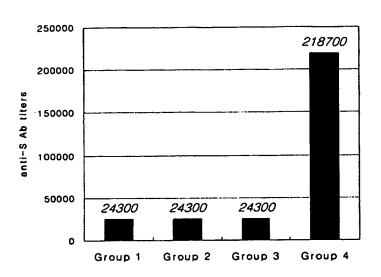
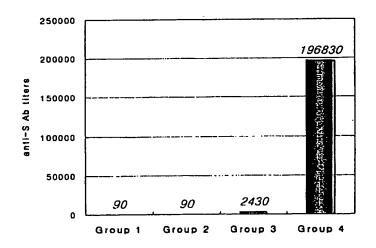


FIG. 1f

anti-S IgG2a



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FIG. 2a

Total IgG

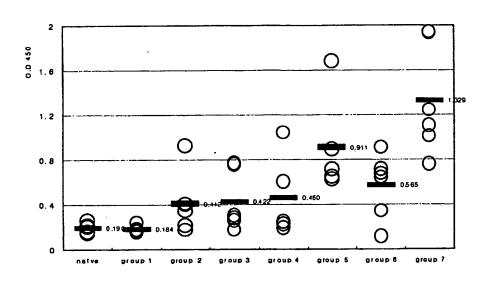
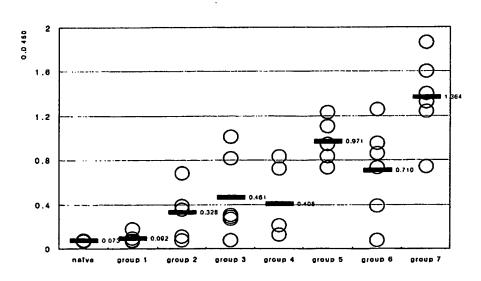


FIG. 2b

lgG1

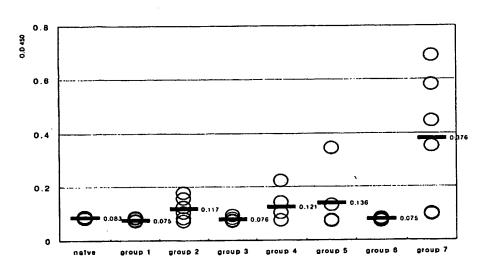


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FIG 2c





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FIG. 3a



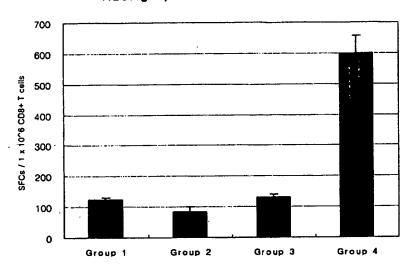
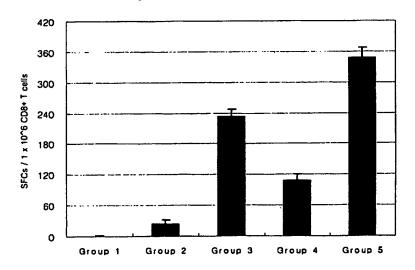


FIG. 3b

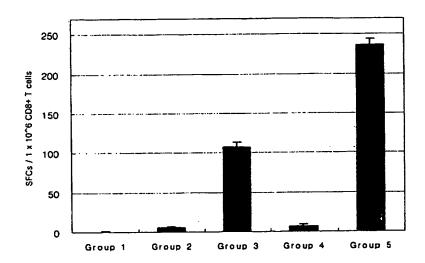
HBsAg specific CTL response



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FIG. 3c

HBsAg specific CD8+ T cells

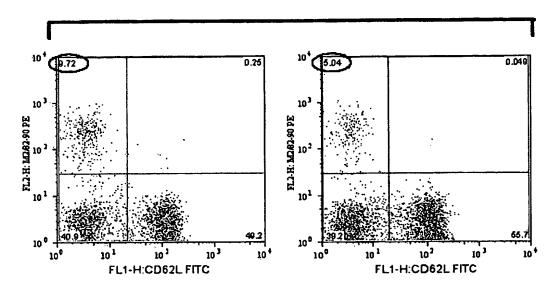


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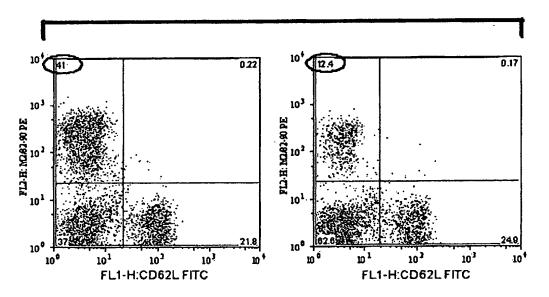
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FIG 4a

Mock microspheres



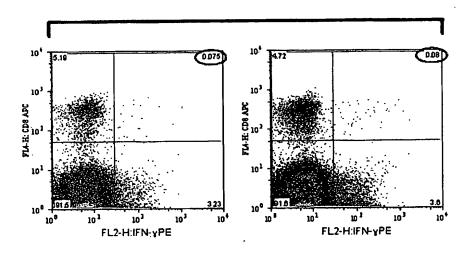
IL-12-encapsulating microspheres



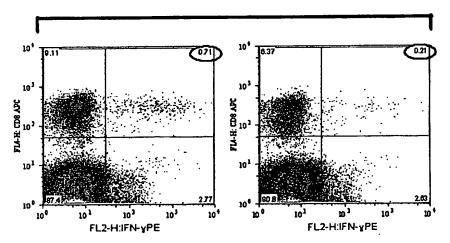
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FIG. 4b

Mock microspheres



IL-12-encapsulating microspheres



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FIG. 5

FIG. 5a

anti-Stotal IgG

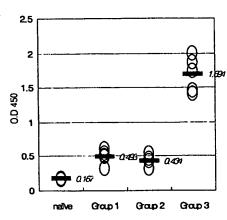


FIG. 5b



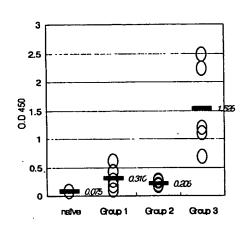
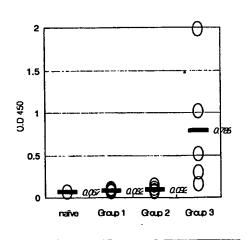


FIG. 5c

anti-S lgG2a

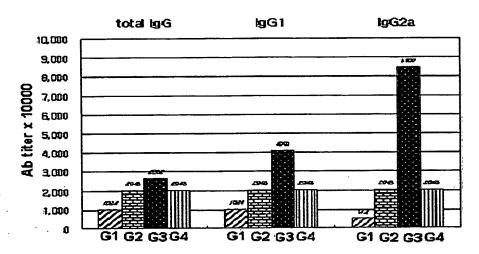


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FIG. 6

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HA-specific Antibody Titration



Group 1 : HA (90g)

Group 2: HA (9ug) + HL-12 (0,1ug)

Group 3: HA (50g) + IL-12 encapsulating microsphere(0, lug)
Group 4: HA (50g) + IL-12 encapsulating microsphere(0,02ug)

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FIG. 7 a

Group 1: HA (3ug)

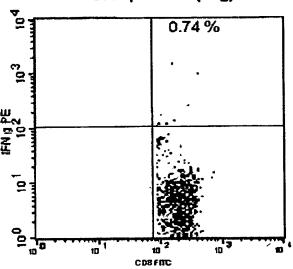
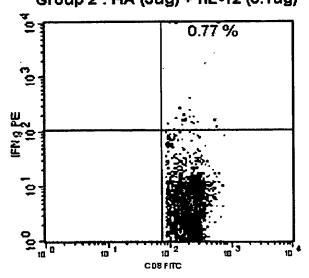


FIG. 7 b

Group 2: HA (3ug) + rlL-12 (0.1ug)



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FIG 7 c

Group 3: HA(3ug) +IL-12 encapsulating microspheres(0.1ug)

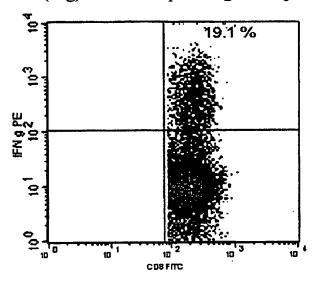
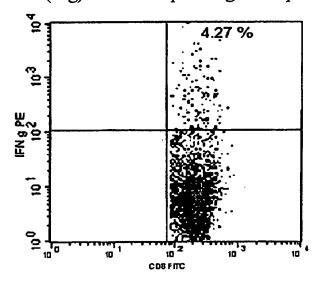


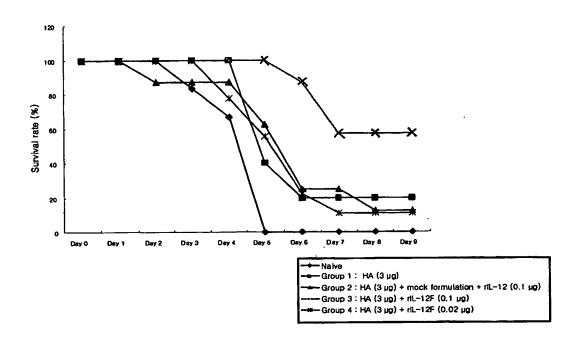
FIG 7 d

Group 4: HA(3ug) +IL-12 encapsulating microspheres(0.02ug)



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FIG 8



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